

6.3 Parametric Equations(odd answers)

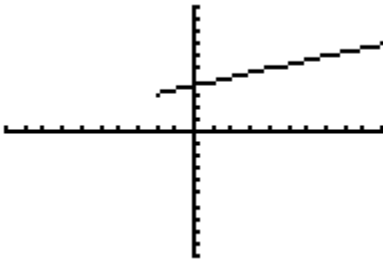
1.

t	x	y
0	1	-2
1	5	-1
2	7	0
3	13	1

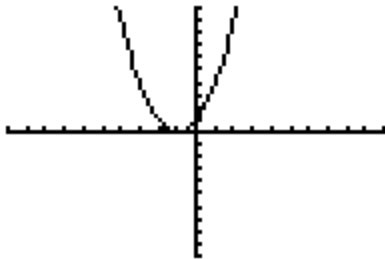
3.

t	x	y
1	1	2
2.5	6.25	6.5
$\sqrt{5}$	5	$3\sqrt{5} - 1$
4	16	11
5	25	14

5.



7.



9. Graph on your own. Make sure you are also in radian mode.

11. $x^2 + y^2 = 16$, circle

13. $y = \sqrt{x-9}$, square root curve

$$15. \quad \begin{aligned} x &= \frac{7}{4}t - \frac{29}{4} & 0 \leq t \leq 7 \\ y &= \frac{-13}{4}t + \frac{55}{4} \end{aligned}$$

$$17. \quad \begin{aligned} x &= 3 \cos t & \pi < t < 2\pi \\ y &= 3 \sin t \end{aligned}$$

$$19. \quad \begin{aligned} x &= \sin(2t) \\ y &= 2 \sin^2 t \end{aligned}$$

21. Set equation equal to zero and solve by graphing or quadratic formula.

$$23. \quad 6 \left(\cos \frac{5\pi}{3} + i \sin \frac{5\pi}{3} \right)$$

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